

To: Schmittiel, Paula[Schmittiel.Paula@epa.gov]; Wharton, Steve[Wharton.Steve@epa.gov]
From: Jenkins, Joy
Sent: Wed 3/5/2014 6:01:28 PM
Subject: InnoCentive Challenge for Animas River Watershed group

Hi Paula and Steve –

Peter Butler left me a voicemail saying that Andrew Todd threw my name in the hat to assist in evaluating these InnoCentive submissions for solutions at the AMD problems in the Animas River Watershed (see below). I understand that they are having a meeting on April 1st I think in Colorado Springs (I think).

Do you want me to get involved with this or not? It could be interesting. But I'd be concerned that if Paula was not there, I could be taken as some official input from the Remedial Program rather than just a technical opinion.

Let me know what you think.

--Joy

Joy Jenkins

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From: David Heinze [mailto:dheinze@environcorp.com]
Sent: Tuesday, February 18, 2014 6:03 PM
To: Steve Hill; Adebayo Ogundipa; Allison Dunaway; Andrew Gorton; Andy McAllister; Angela Frandsen,; Anne Marie Palmieri; Araya Vann; Butler, Barbara; Bob Eppley; Faison, Brendlyn; Bruce Marvin; Cecillia Cheng; Chattopadhyay, Sandip; Cherri Baysinger; Christian Romero; Christine Brown; Christine Nancarrow; Colin McCoy; David Cates; David Tsao; Dibyendu Sarka; Douglas Bacon; Eduardo Gasca; Emma Hong; Eric Nuttall; Esta van Heerden; Newhart, Gary; Greg Aitken; Gregory Shuler; Guy Sewell; Ilsu Lee; James Bays; James Starr; Jim Gusek; Jim Rouse; John Schmeltzer; Jenkins, Joy; Judie A.

Kean; Kent Whiting; Kirk Blevins (kblevins@golder.com); Linda Figueroa; Mark Fitch; Mark O'Neill; Mary Boardman; MDeFlaun@geosyntec.com; Michael Lasher; Michael Sieczkowski; Mahoney, Michele; Nicholas Anton; Nirupma Suryavanshi; Otakuya Conroy-Ben; Paul Eger; Philip Luo; Ledbetter, Ray; Richard Newill; Richard Olm; Robert Thomas; Weber, Robert; Roger Painter; Ronald Neufeld; Sean Davenport; Hoffman, Stephen; Steven Ferries; tkent@quapawtribe.com; Timothy Tsakamoto; Valerie Wilder; Weiquan Dong; Biggs, Kirby; carl; Christian Strachan; Pablo Dimitroff
Cc: Cherri Baysinger; David Cates
Subject: Good Samaritan Legislation and InnoCentive Challenge

Some of you may have already seen this, but thought the rest of you might be interested in this. I am involved in the former ASARCO mine sites located in Silverton Colorado so have been monitoring the activities of the Animas River Stakeholder Group – they are pretty organized and an impressive group. Here is a link to an updated Good Samaritan video that Tom Schillaci has produced for them. It describes the Good Samaritan liability issue and the need for legislation. Here is the link: <http://youtu.be/XkjFdgshv1Y>

Check it out – it's pretty good.

Also, thought you might be interested that the ARSG has posted a challenge on the InnoCentive website. "InnoCentive is the global leader in crowdsourcing innovation problems to the world's smartest people who compete to provide ideas and solutions to important business, social, policy, scientific, and technical challenges."

The link to the challenge is provided below:

<https://www.innocentive.com/ar/challenge/9933520> The Challenge Deadline is 03/08/2014.

People can go to the InnoCentive website and sign up as a solver (it's free). This particular challenge is like a brainstorming. It will be up for 30 days. The award is \$12,000 which may all go to one person, or may be split for up to four solutions. A summary of the challenge is shown below.

Summary:

Mine drainages often contain high concentrations of metals and acid. Neutralization and subsequent precipitation and sludge removal is the most common treatment method

utilized to meet acceptable Clean Water Act Standards. Variations of this treatment method are expensive to operate, utilize a lot of space, and often generate a large waste stream with high disposal costs. The mines of interest are at high altitudes with harsh conditions which complicate the problem. Our ideal solution will remove the metals, neutralize the acid and remove any waste at considerably lower cost than today's acceptable methods.



About the Seeker:

The mission of the Animas River Stakeholders Group (ARSG) is to improve water quality and habitats in the Animas River through a collaborative process designed to encourage participation from all interested parties. Participants include mining companies, environmental organizations, land owners, local governmental entities, and state and federal regulatory and land management agencies. This innovative process holds open meetings allowing all parties to participate at a level suited to their interest and need.

This area has many abandoned draining mines, usually acid mine drainage, from sulfide ore deposits. Most mine sites are above 3030 meters (10,000 feet) elevation in mountains with severe weather conditions. However, if the solution is designed to work under these conditions, it should be applicable to thousands of other draining mines in less severe conditions. Abandoned mine drainage treatment is a worldwide problem. In the US there are tens of thousands of draining abandoned mines. Since these sites generally have no viable responsible party and no existing profitable operation in which to offset costs, it is very desirable to find more cost effective methods of treatment. Ultimately this will lead to improved water quality conditions in receiving water bodies as well as cost savings for the public who generally pays for abandoned mine treatment.

This is an Ideation Challenge, which has the following unique features:

- **There is a guaranteed award.** The awards will be paid to the best submission(s) **as solely determined by the Seeker.** The total payout will be \$12,000, with at least one award being no smaller than \$5,000 and no award being smaller than

\$2,000.

- The Solvers are not required to transfer exclusive intellectual property rights to the Seeker. Rather, by submitting a proposal, the Solvers grants to the Seeker a royalty-free, perpetual, and non-exclusive license to use any information included in this proposal.

After the Challenge deadline, the Seeker will complete the review process and make a decision with regards to the Winning Solution(s). All Solvers that submitted a proposal will be notified on the status of their submissions; however, no detailed evaluation of individual submissions will be provided.

Thanks

David



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